

Standard Development Roadmap

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7. Board adoption and effective date.	May 1, 2006

DEFINITIONS OF TERMS USED IN STANDARD

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Interchange: Energy transfers that cross Balancing Authority boundaries.

Arranged Interchange: The state where the Interchange Authority has received the Interchange information (initial or revised)..

Confirmed Interchange: The state where the Interchange Authority has verified the Arranged Interchange.

Request For Interchange (RFI): **A collection of data as defined in the NAESB RFI Datasheet, to be submitted to the Interchange Authority (IA) for the purpose of implementing bilateral Interchange between a Source and Sink Balancing Authority (BA)**

A. Introduction

1. **Title:** Interchange Authority Distributes Arranged Interchange
2. **Number:** INT-005-1
3. **Purpose:** To ensure that the implementation of Interchange between Source and Sink Balancing Authorities is distributed by an Interchange Authority such that Interchange information is available for reliability assessments.
4. **Applicability**
 - 4.1. Interchange Authority
5. **Proposed Effective Date:** May 1, 2006

B. Requirements

- R1. Prior to the expiration of the time period defined in the Timing Table, Column A, the Interchange Authority shall distribute to all reliability entities involved in the Interchange the Arranged Interchange information for reliability assessment.

C. Measures

- M1. For each Arranged Interchange, the Interchange Authority shall provide evidence that it has distributed the Arranged Interchange information to all reliability entities involved in the Interchange within the applicable time frame.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset Timeframe

The Performance-Reset Period shall be twelve months from the last non-compliance to Requirement 1.

1.3. Data Retention

The Interchange Authority shall keep three months of historical data. The Compliance Monitor shall keep audit records for a minimum of three calendar years.

1.4. Additional Compliance Information

Each Interchange Authority shall demonstrate compliance to the Compliance Monitor within the first year that this standard becomes effective or the first year the entity commences operation by self-certification to the Compliance Monitor.

Subsequent to the initial compliance review, compliance may be:

- 1.4.1 Verified by audit at least once every three years.
- 1.4.2 Verified by spot checks in years between audits.
- 1.4.3 Verified by annual audits of noncompliant Interchange Authorities, until compliance is demonstrated.
- 1.4.4 Verified at any time as the result of a specific complaint of failure to perform Requirement 1. Complaints must be lodged within 60 days of the incident. The Compliance Monitor will evaluate complaints.

Each Interchange Authority shall make the following available for inspection by the Compliance Monitor upon request:

- 1.4.5 For compliance audits and spot checks, all data and system log records for the audit period which indicate the Interchange Authority’s distribution of all Arranged Interchange information to all reliability entities involved in an Interchange. The Compliance Monitor may request up to a three month period of historical data ending with the date the request is received by the Interchange Authority.
- 1.4.6 For specific complaints, only those data and system log records associated with the specific Interchange event contained in the complaint which indicate that the Interchange Authority distributed the Arranged Interchange information to all reliability entities involved in that specific Interchange.

2. Levels of Non-Compliance

- 2.1. **Level 1:** One occurrence of not distributing information to all involved reliability entities as described in Requirement 1.
- 2.2. **Level 2:** Two occurrences of not distributing information to all involved reliability entities as described in R1.
- 2.3. **Level 3:** Three occurrences of not distributing information to all involved reliability entities as described in R1.
- 2.4. **Level 4:** Four occurrences of not distributing information to all involved reliability entities as described in R1 or no evidence provided.

E. Regional Differences

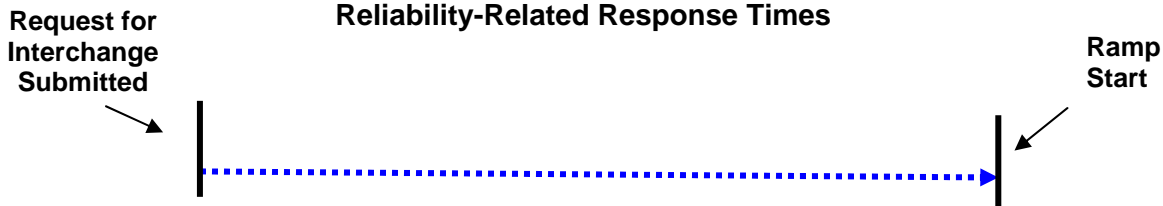
None Identified

Version History

Version	Date	Action	Change Tracking

Timing Table

Interchange Timeline with Minimum Reliability-Related Response Times



	A	B	C	D	
If Actual Arranged Interchange (RFI) is Submitted	IA Makes Initial Distribution of Arranged Interchange	IA, BA and TSP Conduct Reliability Assessments	IA Compiles and Distributes Status	BA Prepares Confirmed Interchange for Implementation	Minimum Total Reliability Period (Columns A through D)
≤1 hour prior to ramp start	≤ 1 minute from RFI submission	≤ 10 minutes from Arranged Interchange receipt from IA for all Interconnections except WECC	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start	15 minutes
≤1 hour prior to ramp start	≤ 1 minute from RFI submission	≤ 5 minutes from Arranged Interchange receipt from IA for WECC	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start	10 minutes
>1 hour to < 4 hours prior to ramp start	≤ 1 minute from RFI submission	≤ 20 minutes from Arranged Interchange receipt from IA	≤ 1 minute from receipt of all Reliability Assessments	≥ 39 minutes prior to ramp start	1 hour plus 1 minute
≥ 4 hours prior to ramp start	≤ 1 minute from RFI submission	≤ 2 hours from Arranged Interchange receipt from IA	≤ 1 minute from receipt of all Reliability Assessments	≥ 1 hour 58 minutes prior to ramp start	4 hours

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Confirmed Interchange: The state where the Interchange Authority has verified the Arranged Interchange and is ready to submit it to the Balancing Authorities.

A. Introduction

1. **Title:** **Response to Interchange Authority**
2. **Number:** **INT-006-1**
3. **Purpose:** To ensure that each Arranged Interchange is checked for reliability before it is implemented.
4. **Applicability**
 - 4.1. Balancing Authority
 - 4.2. Transmission Service Provider
5. **Proposed Effective Date:** May 1, 2006

B. Requirements

- R1. Prior to the expiration of the reliability assessment period defined in the Timing Table, Column B, the Balancing Authority and Transmission Service Provider shall respond to a request from an Interchange Authority to transition an Arranged Interchange to a Confirmed Interchange.
 - R1.1. Each involved Balancing Authority shall evaluate the Arranged Interchange with respect to the ramp.
 - R1.2. Each involved Transmission Service Provider shall confirm that the transmission service arrangements associated with the Arranged Interchange are valid and prevailing transmission system limits will not be violated.

C. Measures

- M1. The Balancing Authority and Transmission Service Provider shall each provide evidence that it responded, relative to transitioning an Arranged Interchange to a Confirmed Interchange, to each request from an Interchange Authority within the reliability assessment period defined in the Timing Table, Column B.

D. Compliance

1. **Compliance Monitoring Process**
 - 1.1. **Compliance Monitoring Responsibility**

Regional Reliability Organization.
 - 1.2. **Compliance Monitoring Period and Reset Timeframe**

The Performance-Reset Period shall be twelve months from the last non-compliance to Requirement 1.
 - 1.3. **Data Retention**

The Balancing Authority and Transmission Service Provider shall each keep three months of historical data. The Compliance Monitor shall keep audit records for a minimum of three calendar years.
 - 1.4. **Additional Compliance Information**

The Balancing Authority and Transmission Service Provider shall demonstrate compliance to the Compliance Monitor within the first year that this standard becomes effective or the first year the entity commences operation by self-certification to the Compliance Monitor.

Subsequent to the initial compliance review, compliance may be:

- 1.4.1 Verified by audit at least once every three years.
- 1.4.2 Verified by spot checks in years between audits.
- 1.4.3 Verified by annual audits of non-compliant Interchange Authorities, until compliance is demonstrated.
- 1.4.4 Verified at any time as the result of a complaint. Complaints must be lodged within 60 days of the incident. The Compliance Monitor will evaluate complaints.

The Balancing Authority, and Transmission Service Provider shall make the following available for inspection by the Compliance Monitor upon request:

- 1.4.5 For compliance audits and spot checks, all data and system log records and agreements for the audit period which indicate a reliability entity identified in Requirement 1 responded to all instances of the Interchange Authority’s communication under Reliability Standard INT-005 Requirement 1 concerning the pending transition of an Arranged Interchange to Confirmed Interchange. The Compliance Monitor may request up to a three month period of historical data ending with the date the request is received by the Balancing Authority, or Transmission Service Provider.
- 1.4.6 For specific complaints, agreements and those data and system log records associated with the specific Interchange event contained in the complaint which indicates a reliability entity identified in Requirement 1 has responded to the Interchange Authority’s communication under Reliability Standard INT-005 R1 concerning the pending transition of Arranged Interchange to Confirmed Interchange for that specific Interchange.

2. Levels of Non-Compliance

- 2.1. **Level 1:** One occurrence of not responding to the Interchange Authority as described in Requirement 1.
- 2.2. **Level 2:** Two occurrences of not responding to the Interchange Authority as described in R1.
- 2.3. **Level 3:** Three occurrences of not responding to the Interchange Authority as described in R1.
- 2.4. **Level 4:** Four occurrences of not responding to the Interchange Authority as described in R1 or no evidence provided.

E. Regional Differences

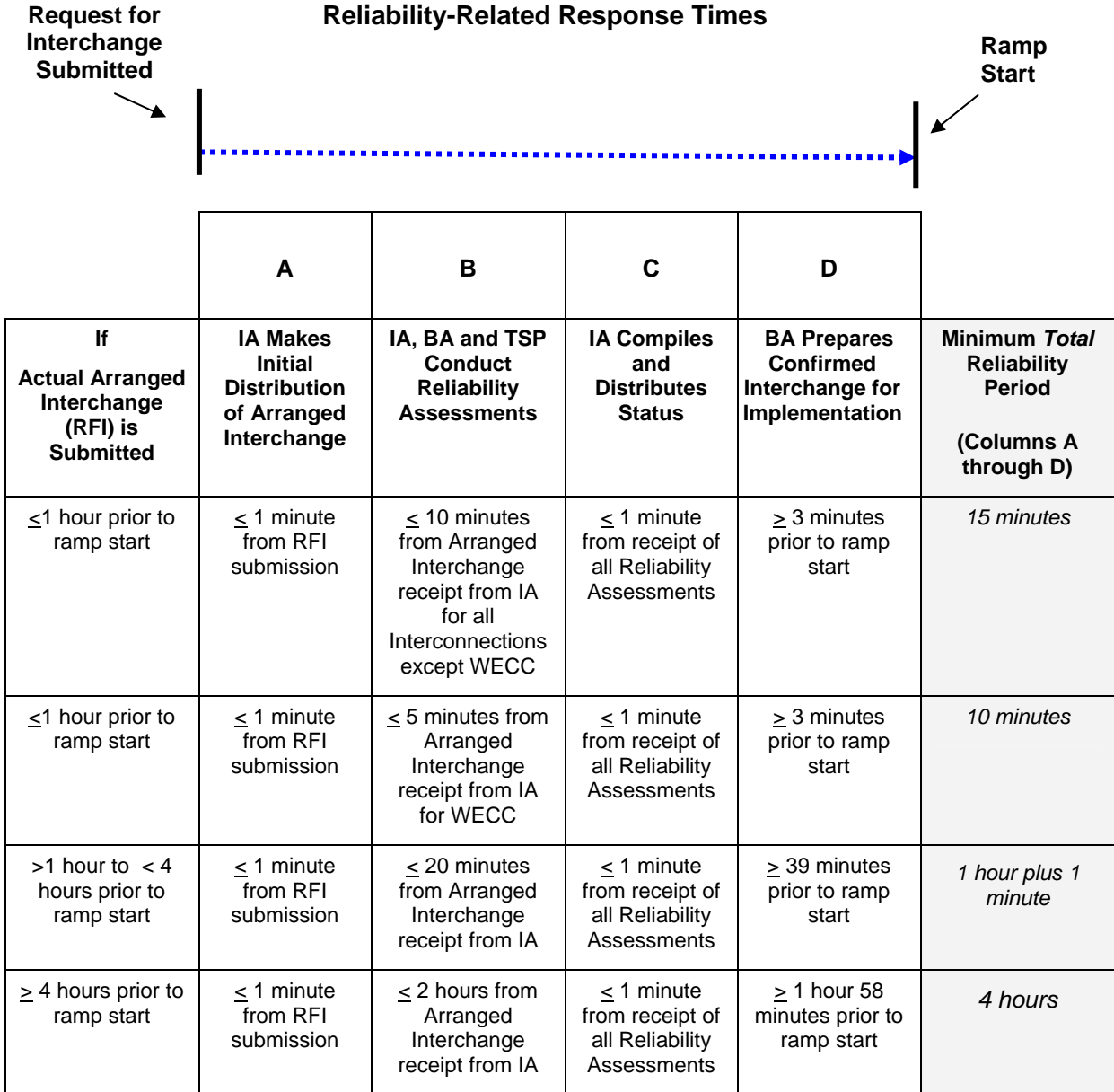
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Interchange Timeline with Minimum Reliability-Related Response Times



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No terms introduced in this standard.

A. Introduction

1. **Title:** Interchange Confirmation
2. **Number:** INT-007-1
3. **Purpose:** To ensure that each Arranged Interchange is checked for reliability before it is implemented.
4. **Applicability**
 - 4.1. Interchange Authority
5. **Effective Date:** May 1, 2006

B. Requirements

- R1. The Interchange Authority shall verify that Arranged Interchange is balanced and valid prior to transitioning Arranged Interchange to Confirmed Interchange by verifying the following:
 - R1.1. Source Balancing Authority megawatts equal sink Balancing Authority megawatts (plus losses, if appropriate).
 - R1.2. Interchange is between registered Balancing Authorities.
 - R1.3. There are contiguous transmission service arrangements from the generator source to the Load sink.
 - R1.4. The following are defined:
 - R1.4.1. Generation source and load sink.
 - R1.4.2. Megawatt profile.
 - R1.4.3. Ramp start and stop times.
 - R1.4.4. Interchange duration.
 - R1.5. Each Balancing Authority and Transmission Service Provider has provided approval.

C. Measures

- M1. For each Arranged Interchange, the Interchange Authority shall show evidence that it has verified the Arranged Interchange information prior to the dissemination of the Confirmed Interchange:

D. Compliance

1. **Compliance Monitoring Process**
 - 1.1. **Compliance Monitoring Responsibility**

Regional Reliability Organization.
 - 1.2. **Compliance Monitoring Period and Reset Timeframe**

The Performance-Reset Period shall be twelve months from the last noncompliance to Requirement 1.
 - 1.3. **Data Retention**

The Interchange Authority shall keep three months of historical data. The Compliance Monitor shall keep audit records for a minimum of three calendar years.
 - 1.4. **Additional Compliance Information**

Each Interchange Authority shall demonstrate compliance to the Compliance Monitor within the first year that this standard becomes effective or the first year the entity commences operation by self-certification to the Compliance Monitor.

Subsequent to the initial compliance review, compliance may be:

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- 1.4.3 Verified by annual audits of noncompliant Interchange Authorities, until compliance is demonstrated.
- 1.4.4 Verified at any time as the result of a complaint. Complaints must be lodged within 60 days of the incident. Complaints will be evaluated by the Compliance Monitor.

Each Interchange Authority shall make the following available for inspection by the Compliance Monitor upon request:

- 1.4.5 For compliance audits and spot checks, all data and system log records for the audit period which indicate an Interchange Authority's verification that all Arranged Interchange was balanced and valid as defined in Requirement 1. The Compliance Monitor may request up to a three-month period of historical data ending with the date the request is received by the Interchange Authority.
- 1.4.6 For specific complaints, only those data and system log records associated with the specific Interchange event contained in the complaint which indicate an Interchange Authority's verification that an Arranged Interchange was balanced and valid as defined in Requirement 1 for that specific Interchange

2. Levels of Non-Compliance

- 2.1. **Level 1:** One occurrence where Interchange-related data was not verified as defined in Requirement 1.
- 2.2. **Level 2:** Two occurrences where Interchange-related data was not verified as defined in R1.
- 2.3. **Level 3:** Three occurrences where Interchange-related data was not verified as defined in R1.
- 2.4. **Level 4:** Four occurrences where Interchange-related data was not verified as defined in R1.

E. Regional Differences

- 1. None

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A. Introduction

1. **Title:** Interchange Authority Distributes Confirmation
2. **Number:** INT-008-1
3. **Purpose:** To ensure that the implementation of Interchange between Source and Sink Balancing Authorities is coordinated by an Interchange Authority.
4. **Applicability**
 - 4.1. Interchange Authority
5. **Proposed Effective Date:** May 1, 2006

B. Requirements

- R1. Prior to the expiration of the time period defined in the Timing Table, Column C, the Interchange Authority shall distribute to all Balancing Authorities (including Balancing Authorities on both sides of a direct current tie), Transmission Service Providers and Purchasing-Selling Entities involved in the Arranged Interchange whether the Arranged Interchange has transitioned to a Confirmed interchange.
 - R1.1. For Confirmed Interchange, the Interchange Authority shall also communicate:
 - R1.1.1. Start and stop times, ramps, and megawatt profile to Balancing Authorities.
 - R1.1.2. Necessary Interchange information to NERC-identified reliability analysis services.

C. Measures

- M1. For each Arranged Interchange, the Interchange Authority shall provide evidence that it has distributed the final status and Confirmed Interchange information specified in Requirement 1 to all Balancing Authorities, Transmission Service Providers and Purchasing-Selling Entities involved in the Arranged Interchange within the time period defined in the Timing Table, Column C. If denied, the Interchange Authority shall tell all involved parties that approval has been denied.
 - M1.1 For each Arranged Interchange that includes a direct current tie, the Interchange Authority shall provide evidence that it has communicated the final status to the Balancing Authorities on both sides of the direct current tie, even if the Balancing Authorities are neither the Source nor Sink for the Interchange.

D. Compliance

1. **Compliance Monitoring Process**
 - 1.1. **Compliance Monitoring Responsibility**

Regional Reliability Organization.
 - 1.2. **Compliance Monitoring Period and Reset Timeframe**

The Performance-Reset Period shall be twelve months from the last non-compliance to Requirement 1.
 - 1.3. **Data Retention**

The Interchange Authority shall keep three months of historical data. The Compliance Monitor shall keep audit records for a minimum of three calendar years.

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- 1.4.4.2** For specific complaints, only those data and system log records associated with the specific Interchange event contained in the complaint which indicate that the Interchange Authority distributed the Arranged Interchange final status and Confirmed Interchange information to all entities involved in that specific Interchange.

2. Levels of Non-Compliance

- 2.1. Level 1:** One occurrence of not distributing final status and information as described in Requirement 1.
- 2.2. Level 2:** Two occurrences of not distributing final status and information as described in R1.
- 2.3. Level 3:** Three occurrences of not distributing final status and information as described in R1.
- 2.4. Level 4:** Four occurrences of not distributing final status and information as described in R1 or no evidence provided.

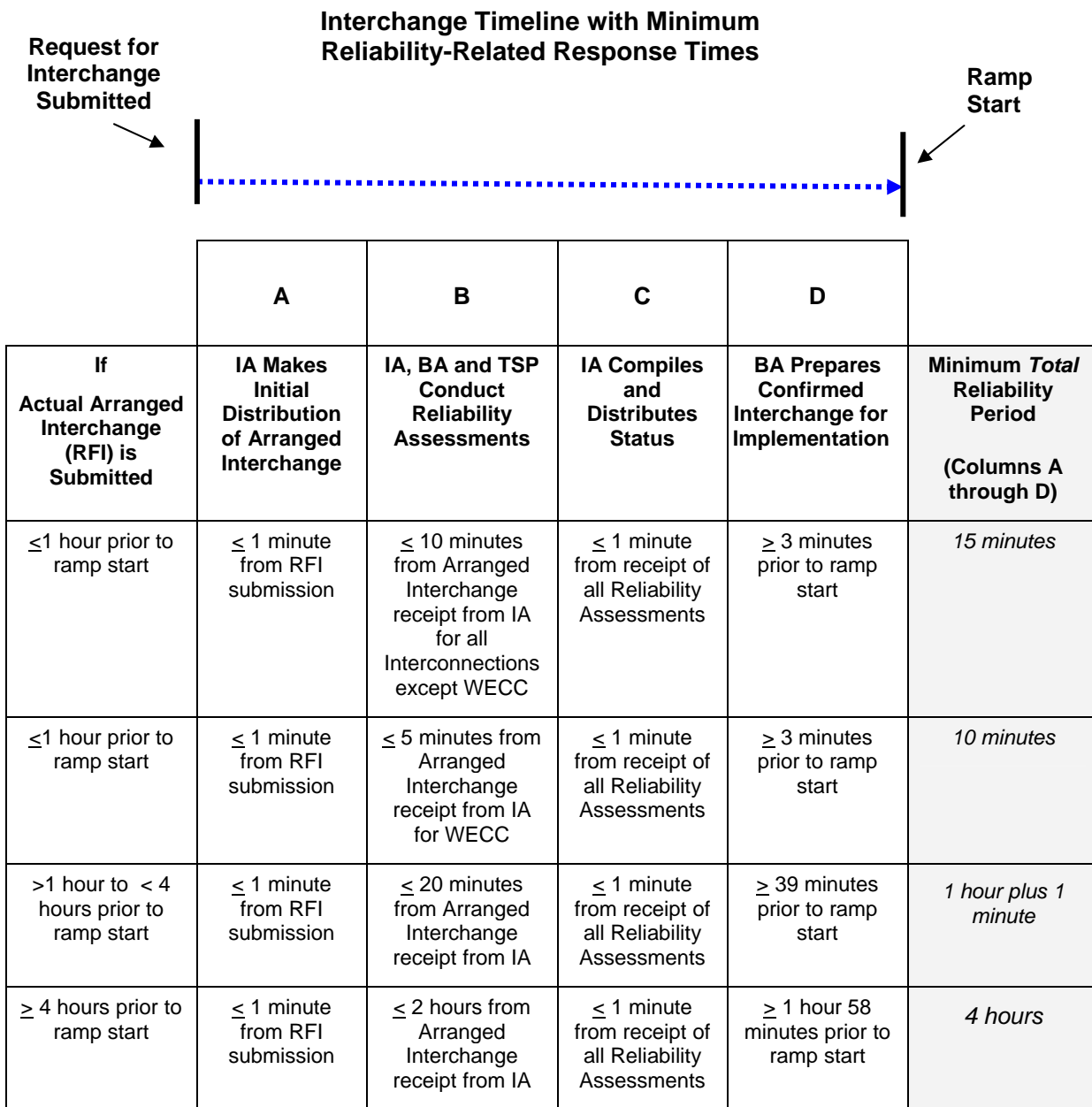
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Implemented Interchange: The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.

A. Introduction

1. **Title:** Implementation of Interchange
2. **Number:** INT-009-1
3. **Purpose:** To ensure that the implementation of Interchange between Source and Sink Balancing Authorities is coordinated by an Interchange Authority such that the Balancing Authorities implement the Interchange exactly as agreed upon in the Interchange confirmation process.
4. **Applicability**
 - 4.1. Balancing Authority.
5. **Proposed Effective Date:** May 1, 2006

B. Requirements

- R1. The Balancing Authority shall implement Confirmed Interchange as received from the Interchange Authority.

C. Measures

- M1. The Balancing Authority shall provide evidence that Implemented Interchange matches Confirmed Interchange as submitted by the Interchange Authority.
 - M1.1 Evidence shall demonstrate that the Interchange was implemented in the Balancing Authority's Area Control Error (ACE) equation, or the system that calculates the ACE equation. Evidence may be on a net basis or an individual Interchange basis.
 - M1.2 Balancing Authorities that are interconnected with a direct current tie shall demonstrate that the Interchange was implemented in the ACE equation or modeled as an equivalent generator/load within its area.

D. Compliance

1. **Compliance Monitoring Process**
 - 1.1. **Compliance Monitoring Responsibility**

Regional Reliability Organization.
 - 1.2. **Compliance Monitoring Period and Reset Timeframe**

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The Balancing Authorities shall make the following available for inspection by the Compliance Monitor upon request:

- 1.3.4.1 For compliance audits and spot checks, all data and system log records for the audit period which indicate a Balancing Authority implemented all instances of the Interchange Authority’s communication under Requirement 1 concerning the implementation of a Confirmed Interchange. The Compliance Monitor may request up to a three month period of historical data ending with the date the request is received by the Balancing Authority.
- 1.3.4.2 For specific complaints, only those data and system log records associated with the specific Interchange event contained in the complaint which indicates a Balancing Authority implemented the Interchange Authority’s communication under R1 concerning the implementation of the Confirmed Interchange for that specific Interchange.

2. Levels of Non-Compliance

- 2.1. **Level 1:** One occurrence of not implementing a Confirmed Interchange as described in Requirement 1.
- 2.2. **Level 2:** Two occurrences of not implementing a Confirmed Interchange as described in R1.
- 2.3. **Level 3:** Three occurrences of not implementing a Confirmed Interchange as described in R1.
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Version	Date	Action	Change Tracking

Standard Development Roadmap

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed:

1. SAC approves SAR for posting (March 10, 2002).
2. Drafting Team posts Draft SAR for comment (April 2 – May 3, 2002) (August 29 – September 30, 2002) (January 31 – March 7, 2003)
3. SAC approves development of standard (May 21, 2003)
4. JIC assigns development of standard to NERC (June 2, 2003)
5. The SAC appoints a standard drafting team (June 13, 2003)
6. The drafting team posts its first draft of the proposed standards (December 15, 2003 - February 12, 2004)
7. Drafting team delays action in re-posting the standards pending finalization of Version 0 Standards and changes to the Functional Model – SAC directs Drafting Team to continue developing standards without waiting any longer for the Functional Model to be revised (May 25, 2005)

Description of Current Draft:

This is the second draft of the standard to be posted for industry comment along with the associated implementation plan and a reference document. This version includes changes in format as well as content, based on SAC directives and stakeholder comments submitted in response to the first draft.

Future Development Plan:

Anticipated Actions	Anticipated Date
1. Post response to comments from industry posting	January 1, 2006
2. Post for 30-day pre-ballot period.	January 1-30, 2006
3. Conduct ballot.	February 1-10, 2006
4. Post response to comments on 1 st ballot	March 1, 2006
5. Conduct 2 nd ballot	March 1-10, 2006
6. Post for 30-day period prior to Board adoption.	April 1-30, 2006
7. Board adoption and effective date.	May 1, 2006

DEFINITIONS OF TERMS USED IN STANDARD

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

No terms introduced in this standard.

1. Introduction

1.1. Title: Interchange Coordination Exemptions

1.2. Number: INT-010-1

1.3. Purpose: To allow certain types of Interchange schedules to be initiated or modified, and to be exempt from compliance with Interchange Standards.

1.4. Applicability:

1.4.1 Balancing Authority

1.4.2 Reliability Coordinator

1.5. Proposed Effective Date: May 1, 2006

2. Requirements

R1. For any Interchange resulting from an energy sharing agreement where the duration exceeds 60 minutes, the Balancing Authority that experienced the loss of generation shall ensure that a request for an Arranged Interchange is submitted and starts within 60 minutes of the initiation of the event.

R2. For a modification to an existing Interchange schedule, that was directed by a Reliability Coordinator, for current or imminent reliability-related reasons, the Reliability Coordinator shall ensure the Arranged Interchange reflecting that modification is submitted within 60 minutes of the initiation of the event.

R3. For a new Interchange schedule that was directed by a Reliability Coordinator, for current or imminent reliability-related reasons, the Reliability Coordinator shall ensure the Arranged Interchange reflecting that Interchange schedule is submitted within 60 minutes of the initiation of the event.

C. Measures

M1. The Balancing Authority that uses its energy sharing agreement where the duration exceeds 60 minutes shall have evidence it submitted Arranged Interchange per Requirement 1.

M2. The Reliability Coordinator that directs a modification to an existing Interchange shall have evidence it ensured the Arranged Interchange was submitted in accordance with Requirement 2.

M3. The Reliability Coordinator that directs the initiation of a new Interchange shall have evidence it ensured an Arranged Interchange was submitted in accordance with Requirement 3.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset Timeframe

The Performance-Reset Period shall be twelve months from the last noncompliance to INT-010.

1.3. Data Retention

The Balancing Authority and Reliability Coordinator shall each keep three months of historical data. The Compliance Monitor shall keep audit records for a minimum of three calendar years.

1.4. Additional Compliance Information

Each Balancing Authority and Reliability Coordinator shall demonstrate compliance to the Compliance Monitor within the first year that this standard becomes effective or the first year the entity commences operation by self-certification to the Compliance Monitor.

Subsequent to the initial compliance review, compliance may be:

- 1.4.1. Verified by audit at least once every three years.
- 1.4.2. Verified by spot checks in years between audits.
- 1.4.3. Verified by annual audits of non-compliant Balancing Authorities and Reliability Coordinators, until compliance is demonstrated.
- 1.4.4. Verified at any time as the result of a complaint. Complaints must be lodged within 60 days of the incident. The Compliance Monitor will evaluate complaints.

The Balancing Authority and Reliability Coordinator shall make the following available for inspection by the Compliance Monitor upon request:

- 1.4.5. For compliance audits and spot checks, all data and system log records for the audit period which indicate a Balancing Authority or Reliability Coordinator acted in compliance with INT-010. The Compliance Monitor may request up to a three month period of historical data ending with the date the request is received by the Balancing Authority
- 1.4.6. For specific complaints, only those data and system log records associated with the specific Interchange event contained in the complaint which indicates a Balancing Authority or Reliability Coordinator failed to act in compliance with INT-010.

2. Levels of Non-Compliance

- 2.1. **Level 1:** One occurrence of not submitting an Arranged Interchange as described in INT-010.
- 2.2. **Level 2:** Two occurrences of not submitting an Arranged Interchange as described in INT-010.
- 2.3. **Level 3:** Three occurrences of not submitting an Arranged Interchange as described in INT-010.
- 2.4. **Level 4:** Four occurrences of not submitting an Arranged Interchange as described in INT-010 or no evidence provided.

E. Regional Differences

None Identified.

Version History

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Standard INT-010-1 – Interchange Coordination Exemptions

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